

[illegible]


```

SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFF  11  333333
SSSSSSSS  AAAAAA  TTTTTTTTTT  SSSSSSSS  SSSSSSSS  FFFFFFFF  11  333333
SS        AA      AA      TT        SS        SS        FF        1111  33  33
SS        AA      AA      TT        SS        SS        FF        1111  33  33
SS        AA      AA      TT        SS        SS        FF        11    33  33
SSSSSS    AA      AA      TT        SSSSSS    SSSSSS    FFFFFFFF  11    33  33
SSSSSS    AA      AA      TT        SSSSSS    SSSSSS    FFFFFFFF  11    33  33
          SS  AAAAAAAAAA  TT        SS        SS        FF        11    33  33
          SS  AAAAAAAAAA  TT        SS        SS        FF        11    33  33
          SS  AA      AA  TT        SS        SS        FF        11    33  33
          SS  AA      AA  TT        SSSSSSSS  SSSSSSSS  FF        111111  333333
SSSSSSSS  AA      AA  TT        SSSSSSSS  SSSSSSSS  FF        111111  333333

LL        IIIIII  SSSSSSSS
LL        IIIIII  SSSSSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SSSSSS
LL        II      SSSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SS
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS

```


| | | |
|-----|-----|-------------------|
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| (2) | 876 | TC CONTROL |
| (2) | 957 | SUBROUTINES |


```
0000 1 .TITLE SATSSF13 - SATS SYSTEM SERVICE TESTS (FAILING S.C.)
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 ++
0000 30 FACILITY: SATS SYSTEM SERVICE TESTS
0000 31
0000 32 ABSTRACT: THE SATSSF13 MODULE TESTS THE EXECUTION OF CERTAIN
0000 33 VMS SYSTEM SERVICES, INVOKED IN SUCH A WAY AS TO EXPECT FAILING
0000 34 STATUS CODES. THE SYSTEM SERVICES TESTED AND THE STATUS CODES
0000 35 EXPECTED ARE SUMMARIZED AS ARGUMENTS TO THE TESTSERV MACROS
0000 36 WHICH APPEAR NEAR THE END OF THIS LISTING. SUCCESSFUL STATUS
0000 37 CODES ARE TESTED IN OTHER MODULES.
0000 38
0000 39
0000 40 ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000 41 DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000 42
0000 43 AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: MMM, 1978
0000 44 PAUL D. FAY (DISPSERV & TESTSERV MACROS)
0000 45
0000 46 MODIFIED BY:
0000 47
0000 48 : VERSION
0000 49 01 -
0000 50 --
```



```
0000 52 .SBTTL DECLARATIONS
0000 53 :
0000 54 : INCLUDE FILES:
0000 55 :
0000 56 $PHDDEF ; PROCESS HEADER OFFSET SYMBOLS
0000 57 $PCBDEF ; PROCESS CONTROL BLOCK OFFSET SYMBS
0000 58 $STSDEF ; STATUS MESSAGE SYMBOLS
0000 59 $PRVDEF ; SYMBOL DEFS FOR PRIVILEGES
0000 60 $UETPDEF ; UETP MSG CODE DEFINITIONS
0000 61 $SHR_MESSAGES UETP,116,<<TEXT,INFO>>
0000 62 ; DEFINE UETPS TEXT
0000 63 ; GET RID OF MACRO DEFINITIONS
0000 64 $PSLDEF ; ACCESS MODE SYMBOLS
0000 65 :
0000 66 : MACROS:
0000 67 :
0000 68 :
0000 69 : EQUATED SYMBOLS:
0000 70 :
00000000 0000 71 WARNING = 0 ; WARNING SEVERITY VALUE FOR MSGS
00000001 0000 72 SUCCESS = 1 ; SUCCESS SEVERITY VALUE FOR MSGS
00000002 0000 73 ERROR = 2 ; ERROR SEVERITY VALUE FOR MSGS
00000003 0000 74 INFO = 3 ; INFORMATIONAL SEV VALUE FOR MSGS
00000004 0000 75 SEVERE = 4 ; SEVERE (FATAL) SEV VALUE FOR MSGS
00000000 0000 76 TCG_NO = 0 ; INITIALIZE TEST CASE GROUP NUMBER
00000000 0000 77 GRP_TOTAL = 0 ; INITIALIZE TEST CASE GROUP TOTAL
00007FFF 0000 78 R0 THRU SP = ^M<R0,R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP,SP>
00000000 0000 79 INADR CVA12 = 0 ; INADR ARG FOR CRETVA (LOCATION 0)
00000001 0000 80 RETADR CVA20 = 1 ; RETADR ARG FOR CRETVA (LOCATION 1)
00000000 0000 81 INADR DVA12 = 0 ; INADR ARG FOR DELTVA (LOCATION 0)
00000001 0000 82 RETADR DVA20 = 1 ; RETADR ARG FOR DELTVA (LOCATION 1)
00000000 0000 83 INADR PWS10 = 0 ; INADR ARG FOR PURGWS (LOCATION 0)
00000001 0000 84 WSETLM_AWS20 = 1 ; WSETLM ARG FOR ADJWSL (LOCATION 1)
0000 85 :
0000 86 : OWN STORAGE:
0000 87 :
```



```
00000000 89 .PSECT RODATA, RD, NOWRT, NOEXE, LONG
BFFC 0000 90 REG_COMP_MASK: .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,AP,FP> ! ^X8000 -
0002 91 ; REG COMPARE MASK (HIGH-ORDER ...
0002 92 ; ... BIT MUST BE ON
0002 93 ERR_MSG_FAOCTL: STRING I,<!/!AC!1ZB!1ZB: REGISTER !2UW CONTENTS ALTERED>, -
0002 94 <: BEFORE SERVICE CALL: !8XL AFTER SERVICE CALL: !8XL>
006E 95 TEST_MOD_NAME: STRING C,<SATSSF13> ; TEST MODULE NAME
0077 96 TEST_MOD_BEG: STRING C,<begun> ; DISPOSITION FIELD OF TEST MOD MSG
007D 97 TEST_MOD_SUCC: STRING C,<successful> ; DISPOSITION FIELD OF TEST MOD MSG
0088 98 TEST_MOD_FAIL: STRING C,<failed> ; DISPOSITION FIELD OF TEST MOD MSG
008F 99 TEST_MOD_NAME_D: STRING I,<SATSSF13> ; TEST MODULE NAME DESCRIPTOR
009F 100 TTNAME: STRING I,<TT> ; TERMINAL LOGICAL NAME
00000000'00000000' 00A9 101 INADR: .LONG NOACCESS,NOACCESS ; PAGE ADDRESS OF NOACCESS PSECT
00000000'00000000' 00B1 102 PROT: .LONG PRTSC_NA ; PROTECTION CODE FOR NOACCESS PSECT
FFFFFFFF FFFFFFFF 00B5 103 ONES: .LONG -1,-1 ; A QUADWORD OF 1-BITS
00BD 104 INADR_CVA10: ; INADR ARGUMENT FOR CRETVA
00BD 105 INADR_DVA10: ; INADR ARGUMENT FOR DELTVA
80000000' 00BD 106 .ADDRESS ^X80000000 ; .....
8F000000' 00C1 107 .ADDRESS ^X8F000000 ; .....
000000CD 00C5 108 RETADR_CVA21: .BLKL 2 ; RETADR ARGUMENT FOR CRETVA
000000D5 00CD 109 RETADR_DVA21: .BLKL 2 ; RETADR ARGUMENT FOR DELTVA
00D5 110 ACMODE_CVA: ; ACMODE ARGUMENT FOR CRETVA
00D5 111 ACMODE_DVA: ; ACMODE ARGUMENT FOR DELTVA
00000003 00D5 112 .LONG PSL$C_USER
00000000'00000000' 00D9 113 INADR_PWS: .ADDRESS 0,0 ; INADR ARGUMENT FOR PURGWS
00000001 00E1 114 PAGCNT_AWS: .LONG 1 ; PAGCNT ARGUMENT FOR ADJWSL
000000E9 00E5 115 WSETLM_AWS21: .BLKL 1 ; WSETLM ARGUMENT FOR ADJWSL
```


| | | | | |
|----------------|------|----------------|------------------------|--------------------------------------|
| 00000000 | 117 | .PSECT | RWDATA, RD, WRT, NOEXE | |
| 00000004 0000 | 118 | TPID: | .BLKL 1 | : PROCESS ID FOR THIS PROCESS |
| 00000008 0004 | 119 | CURRENT TC: | .BLKL 1 | : PTR TO CURRENT TEST CASE |
| 00000044 0008 | 120 | REG_SAVE_AREA: | .BLKL 15 | : SAVE AREA FOR ALL REGS (SANS PC) |
| 007480D9 0044 | 121 | MOD_MSG_CODE: | .LONG UETPS_SATSMS | : TEST MODULE MSG CODE FOR PUTMSG |
| 0000004C 0048 | 122 | CLOB_REG_NO: | .BLKL 1 | : CLOBBED REG NO (FOR FAO ERR MSG) |
| 00000050 004C | 123 | REG_BEFORE_SS: | .BLKL 1 | : REG CONTENTS BEFORE S.S. |
| | 0050 | | | : (FOR FAO ERROR MSG) |
| 00000054 0050 | 124 | | | : REG CONTENTS AFTER S.S. |
| | 0054 | | | : (FOR FAO ERROR MSG) |
| | 0054 | 127 | \$STSTN\$\$: | : ASCII PORTION OF TEST CASE NAME |
| 0000006E' 005C | 128 | TMN_ADDR: | STRING C, < SF > | : ADDR OF TEST MOD NAME FOR FAO |
| 00000077' 0060 | 129 | TMD_ADDR: | .ADDRESS TEST_MOD_NAME | : ADDR OF T.M. DISP FIELD FOR FAO |
| 00000068 0064 | 130 | TS_EP: | .ADDRESS TEST_MOD_BEG | : ENTRY PNT FOR CURR TESTSERV MACRO |
| 00000070 0068 | 131 | RETADR: | .BLKL 1 | : RETURN LONGWORDS FOR SETPRT |
| 00000071 0070 | 132 | PRVPRT: | .BLKL 2 | : PROT RETURN BYTE FOR SETPRT |
| 00000079 0071 | 133 | PRIVMASK: | .BLKB 1 | : ADDR OF PRIVILEGE MASK (IN PHD) |
| 0000007D 0079 | 134 | CHM_CONT: | .BLKQ 1 | : CHANGE MODE CONTINUE ADDRESS |
| 00000091 007D | 135 | REGS: | .BLKL 5 | : AREA FOR COND INDEX REGS (R2-R6) |
| 00000099 0091 | 136 | INADR_CVA: | .BLKL 2 | : INADR ARGUMENT FOR CRETVA SERVICE |
| 000000A1 0099 | 137 | INADR_CVA11: | .BLKL 2 | : INADR ARGUMENT FOR CRETVA SERVICE |
| 000000A9 00A1 | 138 | RETADR_CVA: | .BLKL 2 | : RETADR ARGUMENT FOR CRETVA SERVICE |
| 000000B1 00A9 | 139 | INADR_DVA: | .BLKL 2 | : INADR ARGUMENT FOR DELTVA SERVICE |
| 000000B9 00B1 | 140 | INADR_DVA11: | .BLKL 2 | : INADR ARGUMENT FOR DELTVA SERVICE |
| 000000C1 00B9 | 141 | RETADR_DVA: | .BLKL 2 | : RETADR ARGUMENT FOR DELTVA SERVICE |
| 000000C5 00C1 | 142 | WSETLM_AWS: | .BLKL 1 | : WSETLM ARGUMENT FOR ADJWSL SERVICE |


```
00000000 144 .PSECT SATS ACCVIO_1,RD,WRT,NOEXE,PAGE
00000200 0000 145 EMPTY: .BLKB 512 ; RESERVE A PAGE OF SPACE
0200 146 :
0200 147 : +
0200 148 : *****
0200 149 : *
0200 150 : * THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL. *
0200 151 : * DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS *
0200 152 : * FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE *
0200 153 : * OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS). *
0200 154 : *
0200 155 : *****
0200 156 : -
0200 157 :
0200 158 : TYPE AAAAA_SSSX1 (TYPE AAAAA_SSSX2 IF NOT DESC) GO HERE:
000001F9 0200 159 INADR_CVA14 = . - 7 ; INADR ARGUMENT FOR CRETVA
000001F9 0200 160 RETADR_CVA22 = . - 7 ; RETADR ARGUMENT FOR CRETVA
000001F9 0200 161 INADR_DVA14 = . - 7 ; INADR ARGUMENT FOR DELTVA
000001F9 0200 162 RETADR_DVA22 = . - 7 ; RETADR ARGUMENT FOR DELTVA
000001F9 0200 163 INADR_PWS12 = . - 7 ; INADR ARGUMENT FOR PURGWS
000001FF 0200 164 WSETLM_AWS22 = . - 1 ; WSETLM ARG FOR ADJWSL (LAST BYTE IN PAGE)
000001F3 0200 165 = . - 13 ; ALLOW ROOM FOR STRING DESCRIPTOR
01F3 166 ; TYPE AAAAA_SSSX5 GO HERE:
00000006 01F3 167 .LONG 6 ; STRING LENGTH (WILL CROSS PSECT BOUNDARY)
000001FB 01F7 168 .ADDRESS +4 ; STRING ADDRESS
01FB 169 ; TYPE AAAAA_SSSX3 GO HERE:
000001FC 01FB 170 .BLKB 1 ; LOW-ORDER BYTE OF STRING LENGTH
01FC 171 ; TYPE AAAAA_SSSX2 GO HERE:
00000200 01FC 172 .BLKL 1 ; STRING LENGTH
0200 173 :
0200 174 :
0200 175 :
0200 176 :
00000000 177 .PSECT SATS ACCVIO_2,RD,WRT,NOEXE,PAGE
00000200 0000 178 NOACCESS: .BLKB 512 ; RESERVE A PAGE OF SPACE
00000000 0200 179 = . - 512 ; RETURN LOC CTR TO BEGINNING OF PSECT
00000000 0000 180 .ADDRESS EMPTY ; ADDRESS OF ACCESSIBLE STRING
00000000 0004 181 .ADDRESS EMPTY/^X100 ; ADDRESS OF ACCESSIBLE STRING
0008 182 : +
0008 183 : *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
0008 184 : *** THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
0008 185 : *** FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
0008 186 : *** CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
0008 187 : -
0008 188 :
0008 189 INADR_CVA13: ; INADR ARGUMENT FOR CRETVA
0008 190 INADR_DVA13: ; INADR ARGUMENT FOR DELTVA
0008 191 INADR_PWS11: ; INADR ARGUMENT FOR PURGWS
00000010 0008 192 .BLKL 2
00000000 193 .PSECT SATSSF13,RD,WRT,EXE, LONG
```



```
0000 195 .SBTTL SATSSF13
0000 196 :++
0000 197 : FUNCTIONAL DESCRIPTION:
0000 198 :
0000 199 : AFTER PERFORMING SOME INITIAL HOUSEKEEPING, SUCH AS
0000 200 : PRINTING THE MODULE BEGIN MESSAGE AND ACQUIRING ALL PRIVILEGES,
0000 201 : THE SATSSF13 ROUTINE EXECUTES THE TEST SERV EXEC MACRO TO RUN
0000 202 : ALL TEST CASES. WHEN THE MACRO COMPLETES ITS EXECUTION, SATSSF13
0000 203 : PRINTS A TEST MODULE SUCCESS OR FAIL MESSAGE AND EXITS TO THE
0000 204 : OPERATING SYSTEM. TEST SERV EXEC CALLS THE TC CONTROL/TESTSERV
0000 205 : CO-ROUTINE PAIR ONCE PER TEST CASE GROUP TO EXECUTE ALL TEST
0000 206 : CASES IN THAT GROUP. EACH TEST CASE GROUP IS DEFINED BY BOUNDING
0000 207 : ITS TEST CASES WITH A TC GROUP MACRO BEFORE THE FIRST TEST CASE
0000 208 : AND A TCEND MACRO AFTER THE LAST ONE. THE TEST CASES THEMSELVES
0000 209 : ARE DEFINED WITHIN THESE BOUNDS BY PRECEDING EACH WITH A
0000 210 : NEXT TEST CASE MACRO. TC CONTROL/TESTSERV EXECUTES THE CODE
0000 211 : FOLLOWING EACH NEXT TEST CASE MACRO IMMEDIATELY BEFORE ISSUING
0000 212 : THE SYSTEM SERVICE AS REQUESTED IN THE TESTSERV MACRO. TC CONTROL/
0000 213 : TESTSERV ALSO CHECKS THE RESULTS OF THE SERVICE WITH RESPECT
0000 214 : TO ITS EXPECTED STATUS CODE AND PRINTS ANY REQUIRED FAILURE
0000 215 : MESSAGES FOR THE TEST CASE. THE CODE APPEARING AFTER EACH
0000 216 : NEXT TEST CASE MACRO IS MERELY TO SET UP CONDITIONS REQUIRED
0000 217 : FOR THE SYSTEM SERVICE AND TO CLEAN UP ANY RESOURCES ACQUIRED
0000 218 : BY THE PREVIOUS TEST CASE.
0000 219 :
0000 220 : CALLING SEQUENCE:
0000 221 :
0000 222 : $ RUN SATSSF13 ... (DCL COMMAND)
0000 223 :
0000 224 : INPUT PARAMETERS:
0000 225 :
0000 226 : NONE
0000 227 :
0000 228 : IMPLICIT INPUTS:
0000 229 :
0000 230 : NONE
0000 231 :
0000 232 : OUTPUT PARAMETERS:
0000 233 :
0000 234 : NONE
0000 235 :
0000 236 : IMPLICIT OUTPUTS:
0000 237 :
0000 238 : MESSAGES TO SYS$OUTPUT ARE THE ONLY OUTPUT FROM SATSSF13.
0000 239 : THEY ARE OF THE FORM:
0000 240 :
0000 241 : %UETP-S-SATSMS, TEST MODULE SATSSF13 BEGUN ... (BEGIN MSG)
0000 242 : %UETP-S-SATSMS, TEST MODULE SATSSF13 SUCCESSFUL ... (END MSG)
0000 243 : %UETP-E-SATSMS, TEST MODULE SATSSF13 FAILED ... (END MSG)
0000 244 : %UETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
0000 245 :
0000 246 : COMPLETION CODES:
0000 247 :
0000 248 : THE SATSSF13 ROUTINE TERMINATES WITH A $EXIT TO THE
0000 249 : OPERATING SYSTEM WITH A STATUS CODE DEFINED BY UETP$_SATSMS.
0000 250 :
0000 251 : SIDE EFFECTS:
```



```
0000 252 :  
0000 253 :  
0000 254 :  
0000 255 :--  
0000 256 :  
0000 257 :  
0000 258 :  
0000 259 SATSSF13:  
OFFC 0000 260 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>  
0002 261 : ENTRY MASK  
0002 262 $WAKE S TPID : GET PID OF THIS PROCESS  
0011 263 $HIBER S : UNDO WAKE  
0018 264 $SETPRN_S TEST MOD NAME_D : SET PROCESS NAME  
0025 265 BSBW MOD MSG PRINT : PRINT TEST MODULE BEGIN MSG  
0028 266 MOVAL TEST MOD_SUCC,TMD ADDR : ASSUME END MSG WILL SHOW SUCCESS  
0033 267 INSV #SUCCESS,#0,#3,MOD_MSG_CODE : ADJUST STATUS CODE FOR SUCCESS  
003C 268 MODE TO,10$,KRNL,NOREGS : KERNEL MODE TO ACCESS PHD  
0059 269 MOVL @#CTL$GL PHD,R9 : GET PROCESS HEADER ADDRESS  
0060 270 MOVAL PHD$Q PRIVMSK(R9),PRIVMASK : GET PRIV MASK ADDRESS  
0067 271 MODE FROM,T0$ : GET BACK TO USER MODE  
0068 272 PRIV ADD,ALL : GET ALL PRIVILEGES  
0088 273 DISPSERV : SET UP DISPLAY INFO FOR TESTSERV  
021D 274 $SETPRT_S INADR=INADR, RETADR=RETADR, -  
021D 275 PROT=PROT, PRVPRT=PRVPRT  
023E 276 : SET NOACCESS PSECT  
023E 277 : ... FOR NO USER ACCESS  
0906 31 023E 278 BRW EXECUTE : GO EXECUTE ALL TEST CASES  
0241 279 :  
0241 280 TC_GROUP CVA,1,TS1  
0268 281 :  
0268 282 NEXT_TEST_CASE SFCVA10
```



```

0268 283 :
0268 284 :++
0268 285 :*****
0268 286 :*
0268 287 :* TEST CASE NAME: SFCVA10
0268 288 :*
0268 289 :* SYSTEM SERVICE: CRETVA
0268 290 :*
0268 291 :* ARGUMENT UNDER TEST: INADR_CVA10
0268 292 :*
0268 293 :* INPUT CONDITIONS:
0268 294 :* ISSUE CRETVA WITH RANGE OF ADDRESSES IN
0268 295 :* SYSTEM SPACE.
0268 296 :*
0268 297 :* EXPECTED RESULTS:
0268 298 :* 1) SYSTEM STATUS CODE: NOPRIV
0268 299 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
0268 300 :*
0268 301 :*****
0268 302 :--
0268 303 :
0268 304 :
0268 305 : NEXT_TEST_CASE SFCVA11

```



```
0274 306 :  
0274 307 :++  
0274 308 :*****  
0274 309 :*  
0274 310 :* TEST CASE NAME: SFCVA11  
0274 311 :*  
0274 312 :* SYSTEM SERVICE: CRETVA  
0274 313 :*  
0274 314 :* ARGUMENT UNDER TEST: INADR_CVA11  
0274 315 :*  
0274 316 :* INPUT CONDITIONS:  
0274 317 :* CREATE A PAGE ALREADY OWNED BY EXEC MODE.  
0274 318 :*  
0274 319 :* EXPECTED RESULTS:  
0274 320 :* 1) SYSTEM STATUS CODE: PAGOWNVIO  
0274 321 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0274 322 :*  
0274 323 :*****  
0274 324 :--  
0274 325 :  
0274 326 : MODE TO,10$,EXEC,NOREGS ; GET INTO EXEC MODE FOR EXPREG  
0291 327 : $EXPREG_S PAGCNT=#1, RETADR=INADR_CVA11 ;  
02A4 328 : ; GET A 1-PAGE REGION OWNED BY EXEC MODE  
02A4 329 : MODE FROM,10$ ; BACK TO USER MODE  
02A5 330 :  
02A5 331 : NEXT_TEST_CASE SFCVA12
```



```

02B1 332 :
02B1 333 :++
02B1 334 :*****
02B1 335 :*
02B1 336 :* TEST CASE NAME: SFCVA12
02B1 337 :*
02B1 338 :* SYSTEM SERVICE: CRETVA
02B1 339 :*
02B1 340 :* ARGUMENT UNDER TEST: INADR_CVA12
02B1 341 :*
02B1 342 :* INPUT CONDITIONS:
02B1 343 :* INPUT ADDRESS FIELD AT LOCATION 0.
02B1 344 :*
02B1 345 :* EXPECTED RESULTS:
02B1 346 :* 1) SYSTEM STATUS CODE: ACCVIO
02B1 347 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
02B1 348 :*
02B1 349 :*****
02B1 350 :--
02B1 351 :
02B1 352 : MODE TO,20$,EXEC,NOREGS : INTO EXEC MODE FOR CNTREG
02CE 353 : $CNTREG_S PAGCNT=#1 : GIVE BACK PAGE ACQUIRED BY SFCVA11
02DD 354 : MODE -FROM,20$ : BACK TO USER MODE
02DE 355 :
02DE 356 : NEXT_TEST_CASE SFCVA13

```



```

02EA 357 :
02EA 358 :++
02EA 359 :*****
02EA 360 :*
02EA 361 :* TEST CASE NAME: SFCVA13
02EA 362 :*
02EA 363 :* SYSTEM SERVICE: CRETVA
02EA 364 :*
02EA 365 :* ARGUMENT UNDER TEST: INADR_CVA13
02EA 366 :*
02EA 367 :* INPUT CONDITIONS:
02EA 368 :* INPUT ADDRESS FIELD IN NON-ACCESSIBLE PSECT.
02EA 369 :*
02EA 370 :* EXPECTED RESULTS:
02EA 371 :* 1) SYSTEM STATUS CODE: ACCVIO
02EA 372 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
02EA 373 :*
02EA 374 :*****
02EA 375 :--
02EA 376 :
02EA 377 :
02EA 378 : NEXT_TEST_CASE SFCVA14

```



```

02F6 379 :
02F6 380 :++
02F6 381 :*****
02F6 382 :*
02F6 383 :* TEST CASE NAME: SFCVA14
02F6 384 :*
02F6 385 :* SYSTEM SERVICE: CRETVA
02F6 386 :*
02F6 387 :* ARGUMENT UNDER TEST: INADR_CVA14
02F6 388 :*
02F6 389 :* INPUT CONDITIONS:
02F6 390 :* SECOND LONGWORD OF INPUT ADDRESS FIELD BEGINS IN
02F6 391 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.
02F6 392 :*
02F6 393 :* EXPECTED RESULTS:
02F6 394 :* 1) SYSTEM STATUS CODE: ACCVIO
02F6 395 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
02F6 396 :*
02F6 397 :*****
02F6 398 :--
02F6 399 :
02F6 400 :
02F6 401 : NEXT_TEST_CASE SFCVA20

```



```

0302 402 :
0302 403 :++
0302 404 :*****
0302 405 :*
0302 406 :* TEST CASE NAME: SFCVA20
0302 407 :*
0302 408 :* SYSTEM SERVICE: CRETVA
0302 409 :*
0302 410 :* ARGUMENT UNDER TEST: RETADR_CVA20
0302 411 :*
0302 412 :* INPUT CONDITIONS:
0302 413 :* RETURN ADDRESS FIELD AT LOCATION 1.
0302 414 :*
0302 415 :* EXPECTED RESULTS:
0302 416 :* 1) SYSTEM STATUS CODE: ACCVIO
0302 417 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
0302 418 :*
0302 419 :*****
0302 420 :--
0302 421 :
0302 422 :
0302 423 : NEXT_TEST_CASE SFCVA21

```



```

030E 424 :
030E 425 :++
030E 426 :*****
030E 427 :*
030E 428 :* TEST CASE NAME: SFCVA21
030E 429 :*
030E 430 :* SYSTEM SERVICE: CRETVA
030E 431 :*
030E 432 :* ARGUMENT UNDER TEST: RETADR_CVA21
030E 433 :*
030E 434 :* INPUT CONDITIONS:
030E 435 :* RETURN ADDRESS FIELD IN READ-ONLY PSECT.
030E 436 :*
030E 437 :* EXPECTED RESULTS:
030E 438 :* 1) SYSTEM STATUS CODE: ACCVIO
030E 439 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
030E 440 :*
030E 441 :*****
030E 442 :--
030E 443 :
030E 444 :
030E 445 : NEXT_TEST_CASE SFCVA22

```



```

031A 446 :
031A 447 :++
031A 448 :*****
031A 449 :*
031A 450 :* TEST CASE NAME: SFCVA22
031A 451 :*
031A 452 :* SYSTEM SERVICE: CRETVA
031A 453 :*
031A 454 :* ARGUMENT UNDER TEST: RETADR_CVA22
031A 455 :*
031A 456 :* INPUT CONDITIONS:
031A 457 :* SECOND LONGWORD OF RETURN ADDRESS FIELD BEGINS IN
031A 458 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.
031A 459 :*
031A 460 :* EXPECTED RESULTS:
031A 461 :* 1) SYSTEM STATUS CODE: ACCVIO
031A 462 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
031A 463 :*
031A 464 :*****
031A 465 :--
031A 466 :
031A 467 :
031A 468 : TCEND

```


SATSSF13
V04-000

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| | | | | |
|------|-----|---|----------------|-----------|
| 031B | 469 | : | | |
| 031B | 470 | : | TC_GROUP | DVA,1,TS2 |
| 0342 | 471 | : | | |
| 0342 | 472 | : | NEXT_TEST_CASE | SFDVA10 |


```

0342 473 :
0342 474 :++
0342 475 :*****
0342 476 :*
0342 477 :* TEST CASE NAME:          SFDVA10
0342 478 :*
0342 479 :* SYSTEM SERVICE:          DELTVA
0342 480 :*
0342 481 :* ARGUMENT UNDER TEST:     INADR_DVA10
0342 482 :*
0342 483 :* INPUT CONDITIONS:
0342 484 :*   ISSUE DELTVA WITH RANGE OF ADDRESSES IN
0342 485 :*   SYSTEM SPACE.
0342 486 :*
0342 487 :* EXPECTED RESULTS:
0342 488 :*   1) SYSTEM STATUS CODE: NOPRIV
0342 489 :*   2) REGISTERS R2 THROUGH FP UNCHANGED
0342 490 :*
0342 491 :*****
0342 492 :--
0342 493 :
0342 494 :
0342 495 :

```

NEXT_TEST_CASE SFDVA11


```
034E 496 :  
034E 497 :++  
034E 498 :*****  
034E 499 :*  
034E 500 :* TEST CASE NAME: SFDVA11  
034E 501 :*  
034E 502 :* SYSTEM SERVICE: DELTVA  
034E 503 :*  
034E 504 :* ARGUMENT UNDER TEST: INADR_DVA11  
034E 505 :*  
034E 506 :* INPUT CONDITIONS:  
034E 507 :* DELETE A PAGE ALREADY OWNED BY EXEC MODE.  
034E 508 :*  
034E 509 :* EXPECTED RESULTS:  
034E 510 :* 1) SYSTEM STATUS CODE: PAGOWNVIO  
034E 511 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
034E 512 :*  
034E 513 :*****  
034E 514 :--  
034E 515 :  
034E 516 : MODE TO,10$,EXEC,NOREGS ; GET INTO EXEC MODE FOR EXPREG  
036B 517 : $EXPREG_S PAGCNT=#1, RETADR=INADR_DVA11  
037E 518 : ; GET A 1-PAGE REGION OWNED BY EXEC MODE  
037E 519 : MODE FROM,10$ ; BACK TO USER MODE  
037F 520 :  
037F 521 : NEXT_TEST_CASE SFDVA12
```



```

0388 522 :
0388 523 :++
0388 524 :*****
0388 525 :*
0388 526 :* TEST CASE NAME: SFDVA12
0388 527 :*
0388 528 :* SYSTEM SERVICE: DELTVA
0388 529 :*
0388 530 :* ARGUMENT UNDER TEST: INADR_DVA12
0388 531 :*
0388 532 :* INPUT CONDITIONS:
0388 533 :* INPUT ADDRESS FIELD AT LOCATION 0.
0388 534 :*
0388 535 :* EXPECTED RESULTS:
0388 536 :* 1) SYSTEM STATUS CODE: ACCVIO
0388 537 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
0388 538 :*
0388 539 :*****
0388 540 :--
0388 541 :
0388 542 : MODE TO,20$,EXEC,NOREGS ; INTO EXEC MODE FOR CNTREG
03A8 543 : $CNTREG_S PAGCNT=#1 ; GIVE BACK PAGE ACQUIRED BY SFDVA11
03B7 544 : MODE FROM,20$ ; BACK TO USER MODE
03B8 545 :
03B8 546 : NEXT_TEST_CASE SFDVA13

```



```
03C4 547 :  
03C4 548 :++  
03C4 549 :*****  
03C4 550 :*  
03C4 551 :* TEST CASE NAME: SFDVA13  
03C4 552 :*  
03C4 553 :* SYSTEM SERVICE: DELTVA  
03C4 554 :*  
03C4 555 :* ARGUMENT UNDER TEST: INADR_DVA13  
03C4 556 :*  
03C4 557 :* INPUT CONDITIONS:  
03C4 558 :* INPUT ADDRESS FIELD IN NON-ACCESSIBLE PSECT.  
03C4 559 :*  
03C4 560 :* EXPECTED RESULTS:  
03C4 561 :* 1) SYSTEM STATUS CODE: ACCVIO  
03C4 562 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
03C4 563 :*  
03C4 564 :*****  
03C4 565 :--  
03C4 566 :  
03C4 567 :  
03C4 568 : NEXT_TEST_CASE SFDVA14
```



```

03D0 569 :
03D0 570 :++
03D0 571 :*****
03D0 572 :*
03D0 573 :* TEST CASE NAME: SFDVA14
03D0 574 :*
03D0 575 :* SYSTEM SERVICE: DELTVA
03D0 576 :*
03D0 577 :* ARGUMENT UNDER TEST: INADR_DVA14
03D0 578 :*
03D0 579 :* INPUT CONDITIONS:
03D0 580 :* SECOND LONGWORD OF INPUT ADDRESS FIELD BEGINS IN
03D0 581 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.
03D0 582 :*
03D0 583 :* EXPECTED RESULTS:
03D0 584 :* 1) SYSTEM STATUS CODE: ACCVIO
03D0 585 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
03D0 586 :*
03D0 587 :*****
03D0 588 :--
03D0 589 :
03D0 590 :
03D0 591 : NEXT_TEST_CASE SFDVA20

```



```
03DC 592 :  
03DC 593 :++  
03DC 594 :*****  
03DC 595 :*  
03DC 596 :* TEST CASE NAME: SFDVA20  
03DC 597 :*  
03DC 598 :* SYSTEM SERVICE: DELTVA  
03DC 599 :*  
03DC 600 :* ARGUMENT UNDER TEST: RETADR_DVA20  
03DC 601 :*  
03DC 602 :* INPUT CONDITIONS:  
03DC 603 :* RETURN ADDRESS FIELD AT LOCATION 1.  
03DC 604 :*  
03DC 605 :* EXPECTED RESULTS:  
03DC 606 :* 1) SYSTEM STATUS CODE: ACCVIO  
03DC 607 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
03DC 608 :*  
03DC 609 :*****  
03DC 610 :--  
03DC 611 :  
03DC 612 :  
03DC 613 : NEXT_TEST_CASE SFDVA21
```



```
03E8 614 :  
03E8 615 :++  
03E8 616 :*****  
03E8 617 :*  
03E8 618 :* TEST CASE NAME: SFDVA21  
03E8 619 :*  
03E8 620 :* SYSTEM SERVICE: DELTVA  
03E8 621 :*  
03E8 622 :* ARGUMENT UNDER TEST: RETADR_DVA21  
03E8 623 :*  
03E8 624 :* INPUT CONDITIONS:  
03E8 625 :* RETURN ADDRESS FIELD IN READ-ONLY PSECT.  
03E8 626 :*  
03E8 627 :* EXPECTED RESULTS:  
03E8 628 :* 1) SYSTEM STATUS CODE: ACCVIO  
03E8 629 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
03E8 630 :*  
03E8 631 :*****  
03E8 632 :--  
03E8 633 :  
03E8 634 :  
03E8 635 : NEXT_TEST_CASE SFDVA22
```



```

03F4 636 :
03F4 637 :++
03F4 638 :*****
03F4 639 :*
03F4 640 :* TEST CASE NAME: SFDVA22
03F4 641 :*
03F4 642 :* SYSTEM SERVICE: DELTVA
03F4 643 :*
03F4 644 :* ARGUMENT UNDER TEST: RETADR_DVA22
03F4 645 :*
03F4 646 :* INPUT CONDITIONS:
03F4 647 :* SECOND LONGWORD OF RETURN ADDRESS FIELD BEGINS IN
03F4 648 :* ACCESSIBLE PSECT, ENDS IN NON-ACCESSIBLE PSECT.
03F4 649 :*
03F4 650 :* EXPECTED RESULTS:
03F4 651 :* 1) SYSTEM STATUS CODE: ACCVIO
03F4 652 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
03F4 653 :*
03F4 654 :*****
03F4 655 :--
03F4 656 :
03F4 657 :
03F4 658 : TCEND

```


SATSSF13
V04-000

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| | | | | |
|------|-----|---|----------------|-----------|
| 03F5 | 660 | : | | |
| 03F5 | 661 | : | TC_GROUP | PWS,1,TS3 |
| 041C | 662 | : | | |
| 041C | 663 | : | NEXT_TEST_CASE | SFPWS10 |


```

041C 664 :
041C 665 :++
041C 666 :*****
041C 667 :*
041C 668 :* TEST CASE NAME: SFPWS10
041C 669 :*
041C 670 :* SYSTEM SERVICE: PURGWS
041C 671 :*
041C 672 :* ARGUMENT UNDER TEST: INADR_PWS10
041C 673 :*
041C 674 :* INPUT CONDITIONS:
041C 675 :* INPUT ADDRESS ARRAY AT LOCATION 0.
041C 676 :*
041C 677 :* EXPECTED RESULTS:
041C 678 :* 1) SYSTEM STATUS CODE: ACCVIO
041C 679 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
041C 680 :*
041C 681 :*****
041C 682 :--
041C 683 :
041C 684 :
041C 685 : NEXT_TEST_CASE SFPWS11

```



```

0428 686 :
0428 687 :++
0428 688 :*****
0428 689 :*
0428 690 :* TEST CASE NAME: SFPWS11
0428 691 :*
0428 692 :* SYSTEM SERVICE: PURGWS
0428 693 :*
0428 694 :* ARGUMENT UNDER TEST: INADR_PWS11
0428 695 :*
0428 696 :* INPUT CONDITIONS:
0428 697 :* INPUT ADDRESS ARRAY IN NON-ACCESSIBLE PSECT.
0428 698 :*
0428 699 :* EXPECTED RESULTS:
0428 700 :* 1) SYSTEM STATUS CODE: ACCVIO
0428 701 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
0428 702 :*
0428 703 :*****
0428 704 :--
0428 705 :
0428 706 :
0428 707 : NEXT_TEST_CASE SFPWS12

```



```

0434 708 :
0434 709 :++
0434 710 :*****
0434 711 :*
0434 712 :* TEST CASE NAME: SFPWS12
0434 713 :*
0434 714 :* SYSTEM SERVICE: PURGWS
0434 715 :*
0434 716 :* ARGUMENT UNDER TEST: INADR_PWS12
0434 717 :*
0434 718 :* INPUT CONDITIONS:
0434 719 :* INPUT ADDRESS ARRAY BEGINS IN ACCESSIBLE
0434 720 :* PSECT, ENDS IN NON-ACCESSIBLE PSECT.
0434 721 :*
0434 722 :* EXPECTED RESULTS:
0434 723 :* 1) SYSTEM STATUS CODE: ACCVIO
0434 724 :* 2) REGISTERS R2 THROUGH FP UNCHANGED
0434 725 :*
0434 726 :*****
0434 727 :--
0434 728 :
0434 729 :
0434 730 : TCEND

```


SATSSF13
V04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. ^{E 8} 16-SEP-1984 00:41:49 VAX/VMS Macro V04-00 Page 29
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| | | | |
|------|-------|----------------|-----------|
| 0435 | 731 ; | | |
| 0435 | 732 ; | TC_GROUP | AWS,1,TS4 |
| 045C | 733 ; | | |
| 045C | 734 | NEXT_TEST_CASE | SFAWS20 |


```
045C 735 :  
045C 736 :++  
045C 737 :*****  
045C 738 :*  
045C 739 :* TEST CASE NAME: SFAWS20  
045C 740 :*  
045C 741 :* SYSTEM SERVICE: ADJWSL  
045C 742 :*  
045C 743 :* ARGUMENT UNDER TEST: WSETLM_AWS20  
045C 744 :*  
045C 745 :* INPUT CONDITIONS:  
045C 746 :* WORKING SET LIMIT FIELD AT LOCATION 1.  
045C 747 :*  
045C 748 :* EXPECTED RESULTS:  
045C 749 :* 1) SYSTEM STATUS CODE: ACCVIO  
045C 750 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
045C 751 :*  
045C 752 :*****  
045C 753 :--  
045C 754 :  
045C 755 :  
045C 756 : NEXT_TEST_CASE SFAWS21
```



```
0468 757 :  
0468 758 :++  
0468 759 :*****  
0468 760 :*  
0468 761 :* TEST CASE NAME: SFAWS21  
0468 762 :*  
0468 763 :* SYSTEM SERVICE: ADJWSL  
0468 764 :*  
0468 765 :* ARGUMENT UNDER TEST: WSETLM_AWS21  
0468 766 :*  
0468 767 :* INPUT CONDITIONS:  
0468 768 :* WORKING SET LIMIT FIELD IN READ-ONLY PSECT.  
0468 769 :*  
0468 770 :* EXPECTED RESULTS:  
0468 771 :* 1) SYSTEM STATUS CODE: ACCVIO  
0468 772 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0468 773 :*  
0468 774 :*****  
0468 775 :--  
0468 776 :  
0468 777 :  
0468 778 : NEXT_TEST_CASE SFAWS22
```



```
0474 779 :  
0474 780 :++  
0474 781 :*****  
0474 782 :*  
0474 783 :* TEST CASE NAME: SFAWS22  
0474 784 :*  
0474 785 :* SYSTEM SERVICE: ADJWSL  
0474 786 :*  
0474 787 :* ARGUMENT UNDER TEST: WSETLM_AWS22  
0474 788 :*  
0474 789 :* INPUT CONDITIONS:  
0474 790 :* WORKING SET LIMIT FIELD BEGINS IN ACCESSIBLE  
0474 791 :* PSECT, ENDS IN NON-ACCESSIBLE PSECT.  
0474 792 :*  
0474 793 :* EXPECTED RESULTS:  
0474 794 :* 1) SYSTEM STATUS CODE: ACCVIO  
0474 795 :* 2) REGISTERS R2 THROUGH FP UNCHANGED  
0474 796 :*  
0474 797 :*****  
0474 798 :--  
0474 799 :  
0474 800 :  
0474 801 : TCEND
```



```

0475 802 TS1:
0475 803 TESTSERV CRETVA,ERR,SATS,
0475 804
0475 805 <1,INADR_CVA,
0475 806 INADR_CVA10,NOPRIV, - ; SFCVA10
0475 807 INADR_CVA11,PAGOWNVIO, - ; SFCVA11
0475 808 INADR_CVA12,ACCVIO, - ; SFCVA12
0475 809 INADR_CVA13,ACCVIO, - ; SFCVA13
0475 810 INADR_CVA14,ACCVIO, - ; SFCVA14
0475 811 >,
0475 812
0475 813 <1,RETADR_CVA,
0475 814 RETADR_CVA20,ACCVIO, - ; SFCVA20
0475 815 RETADR_CVA21,ACCVIO, - ; SFCVA21
0475 816 RETADR_CVA22,ACCVIO, - ; SFCVA22
0475 817 >,
0475 818
0475 819 <1,ACMODE_CVA,
0475 820 >,
0475 821
0687 822 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC

```



```

06A7 823 TS2:
06A7 824 TESTSERV DELTVA,ERR,SATS,
06A7 825
06A7 826 <1,INADR_DVA,
06A7 827 INADR_DVA10,NOPRIV, - ; SFDVA10
06A7 828 INADR_DVA11,PAGOWNVIO, - ; SFDVA11
06A7 829 INADR_DVA12,ACCVIO, - ; SFDVA12
06A7 830 INADR_DVA13,ACCVIO, - ; SFDVA13
06A7 831 INADR_DVA14,ACCVIO, - ; SFDVA14
06A7 832 >,
06A7 833
06A7 834 <1,RETADR_DVA,
06A7 835 RETADR_DVA20,ACCVIO, - ; SFDVA20
06A7 836 RETADR_DVA21,ACCVIO, - ; SFDVA21
06A7 837 RETADR_DVA22,ACCVIO, - ; SFDVA22
06A7 838 >,
06A7 839
06A7 840 <1,ACMODE_DVA,
06A7 841 >,
06A7 842
08B9 843 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC

```



```

08D9 844 TS3:
08D9 845 TESTSERV PURGWS,ERR,SATS, -
08D9 846 -
08D9 847 <1,INADR_PWS, -
08D9 848 INADR_PWS10,ACCVIO, - ; SFPWS10
08D9 849 INADR_PWS11,ACCVIO, - ; SFPWS11
08D9 850 INADR_PWS12,ACCVIO, - ; SFPWS12
08D9 851 >, -
08D9 852
09AC 853 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC

```



```

09CC 854 TS4:
09CC 855 TESTSERV ADJWSL,ERR,SATS, -
09CC 856 <1,PAGCNT_AWS, -
09CC 857 >, -
09CC 858 <1,WSETLM_AWS, -
09CC 860 WSETLM_AWS20,ACCVIO, - : SFAWS20
09CC 861 WSETLM_AWS21,ACCVIO, - : SFAWS21
09CC 862 WSETLM_AWS22,ACCVIO, - : SFAWS22
09CC 863 >, -
09CC 864
09CC 865
0B27 866 TS_CLEANUP ; CLEAN UP & RETURN TO TEST_SERV_EXEC

```


| | | | | | | | | |
|-------------|----|----|------|----|------|-----|--|--------------------------------------|
| 00000044'EF | 01 | 1C | 0138 | 30 | 0B47 | 867 | .SBTTL EXECUTE & CLEANUP | |
| | | | 01 | F0 | 0B47 | 868 | EXECUTE: | |
| | | | | | 0B47 | 869 | TEST_SERV_EXEC | ; EXECUTE ALL T. CASES IN ALL GROUPS |
| | | | | | 0B6F | 870 | CLEANUP: | |
| | | | | | 0B6F | 871 | BSBW MOD MSG PRINT | ; PRINT TEST MODULE END MSG |
| | | | | | 0B72 | 872 | INSV #1,#STSSV_INHIB_MSG,#1,MOD MSG CODE | ; INHIBIT PRINTING |
| | | | | | 0B7B | 873 | | |
| | | | | | 0B7B | 874 | \$EXIT_S MOD_MSG_CODE | ; EXIT TO OP SYS WITH MSG CODE |


```
0B88 876 .SBTTL TC_CONTROL
0B88 877 :++
0B88 878 : FUNCTIONAL DESCRIPTION:
0B88 879 :
0B88 880 : THE TC CONTROL SUBROUTINE IS CALLED BY THE TEST_SERV_EXEC
0B88 881 : MACRO TO EXECUTE A GROUP OF TEST CASES. A GROUP IS DEFINED BY A TC_GROUP
0B88 882 : MACRO. FOR EACH TC_GROUP MACRO, THERE IS A CORRESPONDING TESTSERV MACRO.
0B88 883 : TESTSERV CONTAINS CODE TO EXECUTE SYSTEM SERVICES AND CHECK THE RETURNED
0B88 884 : STATUS CODE VALUES. TESTSERV ARGUMENTS ARE CODED TO SPECIFY ALL THE SYSTEM
0B88 885 : SERVICE ARGUMENT VALUES AND THE EXPECTED STATUS CODE FOR EACH TEST CASE
0B88 886 : DEFINED BY A NEXT TEST CASE MACRO WITHIN THE GROUP. TC_CONTROL USES A
0B88 887 : CO-ROUTINE INTERFACE TO ENTER THE CODE OF THE APPROPRIATE TESTSERV MACRO
0B88 888 : IN VARIOUS PLACES. THE FIRST ENTRY OCCURS ONCE PER GROUP TO ALLOW TESTSERV
0B88 889 : TO DO SOME INITIALIZATION. THEN TWO ENTRIES ARE MADE FOR EACH TEST CASE IN
0B88 890 : THE GROUP. THE FIRST ALLOWS TESTSERV TO ISSUE THE SUBJECT SYSTEM SERVICE.
0B88 891 : THE SECOND ENTRY FOR THE TEST CASE CAUSES TESTSERV TO CHECK THE RETURNED
0B88 892 : STATUS CODE, PRINTING A FAILURE MESSAGE IF IT IS NOT THE EXPECTED CODE.
0B88 893 : IF THERE ARE NO MORE TEST CASES IN THE CURRENT GROUP, TESTSERV (NOT TC_CONTROL)
0B88 894 : RETURNS DIRECTLY TO TEST_SERV_EXEC (RSB ACTUALLY ISSUED IN TS_CLEANUP MACRO)
0B88 895 : FROM THIS SECOND ENTRY; OTHERWISE, CONTROL RETURNS TO TC_CONTROL WHICH
0B88 896 : IN TURN ENTERS TESTSERV AGAIN FOR THE NEXT TEST CASE. THE FAILURE OF A
0B88 897 : TEST CASE DOES NOT CAUSE TERMINATION OF THE TEST MODULE.
0B88 898 :
0B88 899 : CALLING SEQUENCE:
0B88 900 :
0B88 901 : BSBW TC_CONTROL (ISSUED WITHIN THE TEST_SERV_EXEC MACRO)
0B88 902 : (RSB IS ISSUED WITHIN THE TS_CLEANUP MACRO)
0B88 903 :
0B88 904 : INPUT PARAMETERS:
0B88 905 :
0B88 906 : NONE
0B88 907 :
0B88 908 : IMPLICIT INPUTS:
0B88 909 :
0B88 910 : ARGUMENTS SPECIFIED ON EACH TESTSERV MACRO MAY BE VIEWED AS
0B88 911 : INPUTS, SINCE TC_CONTROL AND TESTSERV ACT AS CO-ROUTINES.
0B88 912 :
0B88 913 : OUTPUT PARAMETERS:
0B88 914 :
0B88 915 : SEVERITY CODE FIELD OF MOD MSG CODE (BITS 0,1,2) IS SET TO ERROR
0B88 916 : IF ANY TEST CASE IN THE CURRENT GROUP FAILS; OTHERWISE IT REMAINS
0B88 917 : SET TO SUCCESSFUL.
0B88 918 :
0B88 919 : IMPLICIT OUTPUTS:
0B88 920 :
0B88 921 : %UETP-I-TEXT, ERROR MESSAGES ARE WRITTEN TO SYSS$OUTPUT BY
0B88 922 : THE TESTSERV MACRO (CO-ROUTINE WITH TC_CONTROL)
0B88 923 :
0B88 924 : COMPLETION CODES:
0B88 925 :
0B88 926 : NONE
0B88 927 :
0B88 928 : SIDE EFFECTS:
0B88 929 :
0B88 930 : NONE
0B88 931 :
0B88 932 :--
```


| | | | | | | | |
|-------------|-------------|------|------|-------|---|---------------------------|---------------------------------|
| | | | 0B88 | 933 | | | |
| | | | 0B88 | 934 | | | |
| | | | 0B88 | 935 | | | |
| | | | 0B88 | 936 | TC_CONTROL: | | |
| 00000064'EF | DD | 0B88 | 937 | PUSHL | TS_EP | : | PUSH TESTSERV ENTRY POINT |
| 9E | 16 | 0B8E | 938 | JSB | @(SP)+ | : | ENTER TESTSERV INITIALIZATION |
| | | 0B90 | 939 | 10\$: | | : | PROCESS NEXT TEST CASE |
| 00000056'EF | 20 | 90 | 0B90 | 940 | MOVB | #^A/ /,\$\$TSTN\$\$+2 | : |
| | 002F | 30 | 0B97 | 941 | BSBW | REG_SAVE | : |
| 00000004'FF | 16 | 0B9A | 942 | JSB | @CURRENT_TC | : | MAKE SURE T.C. NAME HAS A BLANK |
| | 0037 | 30 | 0BA0 | 943 | BSBW | REG_REST | : |
| | 9E | 16 | 0BA3 | 944 | JSB | @(SP)+ | : |
| | 0042 | 30 | 0BA5 | 945 | BSBW | REG_COMP | : |
| | | | 0BA8 | 946 | | | : |
| | 9E | 16 | 0BA8 | 947 | JSB | @(SP)+ | : |
| 00000056'EF | 2A | 91 | 0BAA | 948 | CMPB | #^A/*/,\$\$TSTN\$\$+2 | : |
| | DD | 12 | 0BB1 | 949 | BNEQU | 10\$ | : |
| 00000060'EF | 00000088'EF | DE | 0BB3 | 950 | MOVAL | TEST MOD FAIL,TMD_ADDR | : |
| 00000044'EF | 03 00 | F0 | 0BBE | 951 | INSV | #ERROR,#0,#3,MOD_MSG_CODE | : |
| | C7 | 11 | 0BC7 | 952 | BRB | 10\$ | : |
| | | | 0BC9 | 953 | : | | : |
| | | | 0BC9 | 954 | : | | : |
| | | | 0BC9 | 955 | : | | : |
| | | | | | TC_CONTROL RETURNS TO TEST_SERV_EXEC VIA TESTSERV (IN TS_CLEANUP MACRO) | | |


```

OBC9 957 .SBTTL SUBROUTINES
OBC9 958 REG_SAVE:
OBC9 959 :
OBC9 960 :*****
OBC9 961 :*
OBC9 962 :* SAVES R0 THRU SP IN REG_SAVE_AREA
OBC9 963 :*
OBC9 964 :*****
OBC9 965 :
OBC9 966 PUSHR #R0_THRU_SP ; SAVE ALL REGS ON STACK
OBCD 967 MOV C3 #60,(SP),REG_SAVE_AREA ; SAVE REGS (BEFORE S.S.)
OBD5 968 POPR #R0_THRU_SP ; CLEAN UP STACK
OBD9 969 RSB ; .... AND RETURN
OBD9 970 :
OBD9 971 :
OBD9 972 :
OBD9 973 :
OBD9 974 REG_REST:
OBD9 975 :
OBD9 976 :
OBD9 977 :*****
OBD9 978 :*
OBD9 979 :* RESTORES R0 THRU SP FROM REG_SAVE_AREA
OBD9 980 :*
OBD9 981 :*****
OBD9 982 :
OBD9 983 SUBL2 #60,SP ; MOVE SP TO MAKE ROOM FOR REGS
OBD9 984 MOV C3 #60,REG_SAVE_AREA,(SP) ; MOVE REGS ONTO STACK FOR POP
OBD9 985 POPR #R0_THRU_SP ; RESTORE ALL REGS FOR TESTSERV
OBD9 986 RSB ; ... AND RETURN

00000008'EF 7FFF 8F BB OBC9 966
6E 6E 3C 28 OBCD 967
7FFF 8F BA OBD5 968
05 OBD9 969
OBD9 970
OBD9 971
OBD9 972
OBD9 973
OBD9 974
OBD9 975
OBD9 976
OBD9 977
OBD9 978
OBD9 979
OBD9 980
OBD9 981
OBD9 982
OBD9 983
OBD9 984
OBD9 985
OBD9 986

6E 00000008'EF 5E 3C C2 OBD9 983
3C 28 OBD9 984
7FFF 8F BA OBD9 985
05 OBD9 986
```



```
OBEA 988 REG_COMP:
OBEA 989 :
OBEA 990 : *****
OBEA 991 : *
OBEA 992 : * 1) PUSHES ALL REGS ONTO STACK *
OBEA 993 : * 2) COMPARES REGISTER IMAGES FROM STACK WITH CORRESPONDING *
OBEA 994 : * IMAGES FROM REG_SAVE_AREA FOR ALL REGISTERS SPECIFIED *
OBEA 995 : * IN REG_COMP_MASK. *
OBEA 996 : * 3) FOR EACH UNEQUAL COMPARE, AN ERROR MESSAGE IS PRINTED *
OBEA 997 : * (USING $FAO AND $OUTPUT SYSTEM SERVICES). *
OBEA 998 : * 4) POPS ALL REGS OFF OF STACK *
OBEA 999 : *****
OBEA 1000 :
OBEA 1001 :
56 7FFF 8F BB OBEA 1002 PUSHR #R0_THRU_SP ; SAVE ALL REGISTERS ON STACK
00000008'EF DE OBEA 1003 MOVAL REG_SAVE_AREA,R6 ; POINT R6 TO BEG OF
54 5E D0 OBF5 1004 ; ... REGS (BEFORE S.S.)
OBF5 1005 MOVL SP,R4 ; POINT R4 TO BEG OF
OBF8 1006 ; ... REGS (AFTER S.S.)
53 FF 8F 98 OBF8 1007 CVTBL #-1,R3 ; INITIALIZE REG_COMP_MASK INDEX
OBF8 1008 REG_COMP_NEXT:
53 53 D6 OBF8 1009 INCL R3 ; POINT TO NEXT BIT IN MASK
53 0F 91 OBF8 1010 CMPB #15,R3 ; END OF THE MASK ?
03 1A OC01 1011 BGTRU REG_COMP_CONT ; NO -- CONTINUE
009F 31 OC03 1012 BRW REG_COMP_RSB ; YES -- GO TO COMMON RETURN
OBEA 1013 REG_COMP_CONT:
84 86 D1 OC06 1014 CMPL (R6)+,(R4)+ ; REG BEFORE = REG AFTER ?
F1 13 OC09 1015 BEQLU REG_COMP_NEXT ; YES -- LOOK FOR NEXT REG
E9 00000000'EF 53 E1 OC0B 1016 BBC R3,REG_COMP_MASK,REG_COMP_NEXT ; NO -- GET NEXT IF BIT NOT SET
00000048'EF 53 D0 OC13 1018 MOVL R3,CLOB_REG_NO ; NO -- GIVE REG NUMBER TO FAO
0000004C'EF FC A6 D0 OC1A 1019 MOVL -4(R6),REG_BEFORE_SS ; GIVE 'BEFORE' CONTENTS TO FAO
00000050'EF FC A4 D0 OC22 1020 MOVL -4(R4),REG_AFTER_SS ; GIVE 'AFTER' CONTENTS TO FAO
00000056'EF 2A 90 OC2A 1021 MOVB #^A/*/, $$TSTN$$+2 ; GIVE FAILURE INDIC'N IN ERROR MSG
OC31 1022 :
OC31 1023 $FAO_S ERR_MSG,FAOCTL,OUTL,OUTD,$$SNAD$$, -
OC31 1024 $$ASEQ$$,$$PSEQ$$,CLOB_REG_NO,REG_BEFORE_SS,REG_AFTER_SS
OC64 1025 :
F4A9 CF F473 CF B0 OC64 1026 MOVW OUTL,OUTD ; ACTUAL OUTPUT LEN IN STRING DESC'R
OC6B 1027 PUTMSG <#UETPS TEXT,#1,#OUTD> ; PRINT THE MSG
F48D CF 0084 8F B0 OC80 1028 MOVW #OUTE-OUTB,OUTD ; GET MAX LEN BACK INTO DESCRIPTOR
00000056'EF 20 90 OC87 1029 MOVB #^A/ /,$$TSTN$$+2 ; REMOVE FAIL INDIC'N FOR NEXT MSG
00000060'EF 00000088'EF DE OC8E 1030 MOVAL TEST_MOD_FAIL,TMD_ADDR ; INDICATE FAILED IN END MSG
00000044'EF 03 00 02 F0 OC99 1031 INSV #ERROR,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR ERROR
FF57 31 OCA2 1032 BRW REG_COMP_NEXT ; GO LOOK FOR NEXT REG TO COMPARE
OBEA 1033 REG_COMP_RSB:
7FFF 8F BA OCA5 1034 POPR #R0_THRU_SP ; CLEAN UP STACK
05 OCA9 1035 RSB ; RETURN TO CALLER
```



```
OCAA 1037 MOD_MSG_PRINT:
OCAA 1038 :
OCAA 1039 : *****
OCAA 1040 : *
OCAA 1041 : * PRINTS THE TEST MODULE BEGUN/SUCCESSFUL/FAILED MESSAGES *
OCAA 1042 : * (USING THE PUTMSG MACRO). *
OCAA 1043 : *
OCAA 1044 : *****
OCAA 1045 :
05 OCAA 1046 PUTMSG <MOD_MSG_CODE,#2,TMN_ADDR,TMD_ADDR> ; PRINT MSG
OCC5 1047 RSB ; ... AND RETURN TO CALLER
OCC6 1048 :
OCC6 1049 CHMRTN:
OCC6 1050 : *****
OCC6 1051 : *
OCC6 1052 : * CHANGE MODE ROUTINE. THIS ROUTINE GETS CONTROL WHENEVER
OCC6 1053 : * A CMKRNL, CMEXEC, OR CMSUP SYSTEM SERVICE IS ISSUED
OCC6 1054 : * BY THE MODE MACRO ('TO' OPTION). IT MERELY DOES
OCC6 1055 : * A JUMP INDIRECT ON A FIELD SET UP BY MODE. IT HAS
OCC6 1056 : * THE EFFECT OF RETURNING TO THE END OF THE MODE
OCC6 1057 : * MACRO EXPANSION.
OCC6 1058 : *
OCC6 1059 : *****
OCC6 1060 :
00000079'FF 0000 OCC6 1061 .WORD 0 ; ENTRY MASK
17 OCC8 1062 JMP @CHM_CONT ; RETURN TO MODE MACRO IN NEW MODE
OCC6 1063 :
OCC6 1064 : * RET INSTR WILL BE ISSUED IN EXPANSION OF 'MODE FROM, ....' MACRO
OCC6 1065 :
OCC6 1066 .END SATSSF13
```


SATSSF13
Symbol table

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 00:41:49 VAX/VMS Macro V04-00
5-SEP-1984 04:29:04 [UETPSY.SRC]SATSSF13.MAR;1

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(2)

| | | | | | |
|---------------------|--------------|----|----------------|--------------|----|
| \$\$\$CHARS | = 00000048 | | OUTD | 00000114 R | 06 |
| \$\$\$FIRSTTC\$\$\$ | = 00000000 | | OUTE | 000001A0 R | 06 |
| \$\$\$STRINGS | = 00000000 | | OUTL | 000000DB R | 06 |
| \$\$ACT\$\$ | 000000F3 R | 06 | PAGCNT AWS | 000000E1 R | 02 |
| \$\$ARG\$\$ | 000000FB R | 06 | PHDSQ PRIVMSK | = 00000000 | |
| \$\$ASEQ\$\$ | 000000EB R | 06 | PRIVMASK | 00000071 R | 03 |
| \$\$CALL\$\$ | 000000DF R | 06 | PRIV_ARGS | = 00000002 | |
| \$\$DISP\$\$ | 000001E6 R | 06 | PROT | 000000B1 R | 02 |
| \$\$ERR\$\$ | 000001A0 R | 06 | PRTSC NA | ***** X | 02 |
| \$\$EXP\$\$ | 000000F7 R | 06 | PRVPRT | 00000070 R | 03 |
| \$\$INIT\$\$ | 000000E3 R | 06 | PSLSC USER | = 00000003 | |
| \$\$MAXP\$\$ | = 00000005 | | RO_THRU_SP | = 00007FFF | |
| \$\$PSEQ\$\$ | 000000EF R | 06 | REGS | 0000007D R | 03 |
| \$\$SNAD\$\$ | 000000E7 R | 06 | REG_AFTER_SS | 00000050 R | 03 |
| \$\$T1 | = 00000004 | | REG_BEFORE_SS | 0000004C R | 03 |
| \$\$T2 | = 00000009 | | REG_COMP | 00000BEA R | 06 |
| \$\$TSTN\$\$ | 00000054 R | 03 | REG_COMP_CONT | 00000C06 R | 06 |
| ACMODE_CVA | 000000D5 R | 02 | REG_COMP_MASK | 00000000 R | 02 |
| ACMODE_DVA | 000000D5 R | 02 | REG_COMP_NEXT | 00000BFC R | 06 |
| CHMRTN | 000000CC R | 06 | REG_COMP_RSB | 00000CA5 R | 06 |
| CHM_CONT | 00000079 R | 03 | REG_REST | 00000BDA R | 06 |
| CLEANUP | 000000B6 R | 06 | REG_SAVE | 00000BC9 R | 06 |
| CLOB_REG_NO | 00000048 R | 03 | REG_SAVE_AREA | 00000008 R | 03 |
| CTL\$GL_PFD | ***** X | 06 | RETADR | 00000068 R | 03 |
| CURRENT_TC | 00000004 R | 03 | RETADR_CVA | 000000A1 R | 03 |
| EMPTY | 00000000 R | 04 | RETADR_CVA20 | = 00000001 | |
| ERROR | = 00000002 | | RETADR_CVA21 | 000000C5 R | 02 |
| ERR_MSG_FAOCTL | 00000002 R | 02 | RETADR_CVA22 | = 000001F9 R | 04 |
| EXECUTE | 000000B7 R | 06 | RETADR_DVA | 000000B9 R | 03 |
| GRP_TOTAL | = 00000004 | | RETADR_DVA20 | = 00000001 | |
| INADR | 000000A9 R | 02 | RETADR_DVA21 | 000000CD R | 02 |
| INADR_CVA | 00000091 R | 03 | RETADR_DVA22 | = 000001F9 R | 04 |
| INADR_CVA10 | 000000BD R | 02 | SATSSF13 | 00000000 R | 06 |
| INADR_CVA11 | 00000099 R | 03 | SEVERE | = 00000004 | |
| INADR_CVA12 | = 00000000 | | SHRSK_SHRDEF | = 00000001 | |
| INADR_CVA13 | 00000008 R | 05 | SHRS TEXT | = 00001130 | |
| INADR_CVA14 | = 000001F9 R | 04 | SS\$ACCPIO | ***** X | 06 |
| INADR_DVA | 000000A9 R | 03 | SS\$NOPRIV | ***** X | 06 |
| INADR_DVA10 | 000000BD R | 02 | SS\$PAGOWNVIO | ***** X | 06 |
| INADR_DVA11 | 000000B1 R | 03 | STSV_INHIB_MSG | = 0000001C | |
| INADR_DVA12 | = 00000000 | | SUCCESS | = 00000001 | |
| INADR_DVA13 | 00000008 R | 05 | SYSSADJWSL | ***** GX | 06 |
| INADR_DVA14 | = 000001F9 R | 04 | SYSSCMEXEC | ***** GX | 06 |
| INADR_PWS | 000000D9 R | 02 | SYSSCMKRNL | ***** GX | 06 |
| INADR_PWS10 | = 00000000 | | SYSSCNTREG | ***** GX | 06 |
| INADR_PWS11 | 00000008 R | 05 | SYSSCRETVA | ***** GX | 06 |
| INADR_PWS12 | = 000001F9 R | 04 | SYSSDELTVA | ***** GX | 06 |
| INFO | = 00000003 | | SYSS\$EXIT | ***** GX | 06 |
| LIB\$SIGNAL | ***** X | 06 | SYSS\$EXPREG | ***** GX | 06 |
| MEXIT | = 00000000 | | SYSS\$FAO | ***** X | 06 |
| MOD_MSG_CODE | 00000044 R | 03 | SYSS\$FAOL | ***** GX | 06 |
| MOD_MSG_PRINT | 00000CAA R | 06 | SYSS\$HIBER | ***** GX | 06 |
| NARGS | = 00000014 | | SYSS\$PURGWS | ***** GX | 06 |
| NOACCESS | 00000000 R | 05 | SYSS\$SETPRN | ***** GX | 06 |
| NSSARGS | = 00000002 | | SYSS\$SETPRV | ***** GX | 06 |
| ONES | 000000B5 R | 02 | SYSS\$WAKE | ***** GX | 06 |
| OUTB | 0000011C R | 06 | | | |

SATSSF13
Symbol table

| | | | |
|-----------------|------------|---|----|
| TC1 | 00000241 | R | 06 |
| TC2 | 0000031B | R | 06 |
| TC3 | 000003F5 | R | 06 |
| TC4 | 00000435 | R | 06 |
| TCG_NO | = 00000004 | | |
| TC_CONTROL | 00000B88 | R | 06 |
| TEST_MOD_BEG | 00000077 | R | 02 |
| TEST_MOD_FAIL | 00000088 | R | 02 |
| TEST_MOD_NAME | 0000006E | R | 02 |
| TEST_MOD_NAME_D | 0000008F | R | 02 |
| TEST_MOD_SUCC | 0000007D | R | 02 |
| TMD_ADDR | 00000060 | R | 03 |
| TMN_ADDR | 0000005C | R | 03 |
| TPID | 00000000 | R | 03 |
| TS1 | 00000475 | R | 06 |
| TS2 | 000006A7 | R | 06 |
| TS3 | 000008D9 | R | 06 |
| TS4 | 000009CC | R | 06 |
| TS_EP | 00000064 | R | 03 |
| TTNAME | 0000009F | R | 02 |
| UETPS_SATSMS | = 007480D9 | | |
| UETPS_TEXT | = 00741133 | | |
| WARNING | = 00000000 | | |
| WSETLM_AWS | 000000C1 | R | 03 |
| WSETLM_AWS20 | = 00000001 | | |
| WSETLM_AWS21 | 000000E5 | R | 02 |
| WSETLM_AWS22 | = 000001FF | R | 04 |

+-----+
! Psect synopsis !
+-----+

| PSECT name | Allocation | PSECT No. | Attributes |
|---------------|-------------------|-----------|---|
| . ABS . | 00000000 (0.) | 00 (0.) | NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE |
| \$ABSS | 00000000 (0.) | 01 (1.) | NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE |
| RODATA | 000000E9 (233.) | 02 (2.) | NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG |
| RWDATA | 000000C5 (197.) | 03 (3.) | NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC BYTE |
| SATS_ACCVIO_1 | 00000200 (512.) | 04 (4.) | NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE |
| SATS_ACCVIO_2 | 00000200 (512.) | 05 (5.) | NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC PAGE |
| SATSSF13 | 00000CCE (3278.) | 06 (6.) | NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG |

+-----+
! Performance indicators !
+-----+

| Phase | Page faults | CPU Time | Elapsed Time |
|------------------------|-------------|-------------|--------------|
| Initialization | 30 | 00:00:00.08 | 00:00:00.39 |
| Command processing | 109 | 00:00:00.67 | 00:00:02.20 |
| Pass 1 | 404 | 00:00:15.72 | 00:00:28.65 |
| Symbol table sort | 0 | 00:00:01.14 | 00:00:01.66 |
| Pass 2 | 212 | 00:00:03.90 | 00:00:06.34 |
| Symbol table output | 18 | 00:00:00.12 | 00:00:00.13 |
| Psect synopsis output | 2 | 00:00:00.04 | 00:00:00.04 |
| Cross-reference output | 0 | 00:00:00.00 | 00:00:00.00 |
| Assembler run totals | 777 | 00:00:21.68 | 00:00:39.41 |

The working set limit was 1950 pages.
83502 bytes (164 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 660 non-local and 130 local symbols.
1066 source lines were read in Pass 1, producing 29 object records in Pass 2.
69 pages of virtual memory were used to define 53 macros.

+-----+
! Macro library statistics !
+-----+

| Macro library name | Macros defined |
|-------------------------------------|----------------|
| ----- | ----- |
| _\$255\$DUA28:[SHRLIB]UETP.MLB;1 | 19 |
| _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 | 2 |
| _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 | 26 |
| TOTALS (all libraries) | 47 |

1313 GETS were required to define 47 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF13/OBJ=OBJ\$:SATSSF13 MSRC\$:SATSSF13/UPDATE=(ENH\$:SATSSF13)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0420 AH-BT13A-SE
VAX/VMS V4.0

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